

Government of India  
**Department of Science & Technology**  
(International Cooperation Division)

**2008 India–European Union Call for Proposal in Computational Materials Science**  
**(Deadline for Submission: 24 April 2008)**

**Solicitation of:** India–European Union (EU) Research Project Proposals by the Department of Science and Technology (DST), Government of India and European Commission (EC), within the framework of the India–European Union Science and Technology Cooperation Agreement.

**Indicative budget:** For this India–EU Call, EC has earmarked Euros 5 million and DST has allocated similar level of funds to support up to about 10 India–EU Research Projects (out of those proposals received).

**Eligible applicants and project partnership requirements:** A balanced participation of partners from Europe and India is required.

- As far as Indian partners are concerned, a minimum number of participating legal research entities is 3 from different institutions, preferably from different Indian states. Eligible partners can be legal research entities from academic institutions, research institutes, undertakings or firms/SMEs\* as per domestic norms in EU and India. (\*Funding will be limited to 50% of the project cost by way of grant/loan as per norms of co-sponsors.);
- As far as European partners from European Union Member States (MS) and Associated States (AS) are concerned, minimum number of participating legal research entities is 3 from three different countries.

**Application format and submission deadline:** India–EU research proposals, written on a common application form (Part B of the Proposal together with Draft Consortium Agreement), is to be submitted by the Indian and EU Project Coordinator respectively to their counterpart funding agencies concurrently, namely Department of Science & Technology (International Cooperation Division), New Mehrauli Road, New Delhi 110 016, India (e-mail: [srelia@nic.in](mailto:srelia@nic.in)) and EC Directorate General Research, Brussels Belgium (e-mail: [Jose-Lorenzo.Valles@ec.europa.eu](mailto:Jose-Lorenzo.Valles@ec.europa.eu)) by **24 April 2008**, 2030 h (India local time) and **24 April 2008** 17.00 h (Brussels local time).

**Eligible topics for India–EU research proposals:** The proposals must be clearly relevant to computational materials science at the frontier of knowledge. The expected joint projects should focus on the understanding and modeling of material properties, processing and performance. Various computational approaches can be considered including *ab initio* theories, model Hamiltonian approaches, atomic simulation such as MC and MD, FEM, DEM, Quasi continuum approaches and multi-scale simulation methods which take into account scale integration covering from atomic level to continuum approaches. The links between simulation, theory, experiment, validation and use should be taken into account.

Areas of computational materials science covered include, but are not limited to, modeling of: nanomaterials, metallic materials, ferroic materials, ceramics, polymers, composites, nature mimicking materials, biomaterials, green solvents, alloys, clusters, interfaces, size-dependent effects, dislocations, diffusion, electronic and optical properties, as well as different aspects of the thermal and mechanical behaviour of materials.

Prospective Indian applicants are advised to visit DST Website: <http://www.dst.gov.in> for obtaining details of this announcement, including application format, scientific evaluation criteria, funding norms.